Introducing elements [objects] in proofs

When elements appear in a proof, they need to be introduced so that readers understand how to interpret them and/or any properties that might be attached to them.

For example, if an element, say x, is generic, then it should be introduced before you refer to it in any part of your proof. Standard introductory phrases would be "Fix x in G …" or "Consider x in G … ."

If y is a particular element, then introduce it as such: "For some y in G, we know …" or "There is a y in G with … ."

In either case, the reader will have an understanding of the elements [or any other kind of objects] being introduced instead of trying to figure out how to interpret their presence from the context of your argument.