```
lang_rel_symm  THM

⊢  ∀L:LangOver(A). Sym x,y:A*. x L-induced Equiv y  by UnivCD
|
1. A : Type
2. L : LangOver(A)
⊢  Sym x,y:A*. x L-induced Equiv y
| by (Unfolds [‘sym‘;‘lang_rel‘] 0) THEN (Reduce 0)
|
⊢  ∀a,b:A*.
|  (∀z:A*. L(z @ a) ⟺ L(z @ b)) ⇒ (∀z:A*. L(z @ b) ⟺ L(z @ a))
| by Unfold ‘languages‘ 2
|
|\
| 2. L : A*→Prop
| 3. a : A*
| 4. b : A*
| 5. ∀z:A*. L(z @ a) ⟺ L(z @ b)
| 6. z : A*
| 7. L(z @ b)
| ⊢  L(z @ a)  by BackThru 5
|
.\
. 2. L : A*→Prop
. 3. a : A*
. 4. b : A*
. 5. ∀z:A*. L(z @ a) ⟺ L(z @ b)
. 6. z : A*
. 7. L(z @ a)
. ⊢  L(z @ b)  by BackThru 5
END
```