```
compose_inject  THM

⊢  ∀A,B,C:Type, f:(A→B), g:(B→C).
|  Inj(A; B; f) ⇒ Inj(B; C; g) ⇒ Inj(A; C; g o f)
| by (Unfold ‘inject‘ 0) THEN (Reduce 0)
|
1. A : Type
2. B : Type
3. C : Type
4. f : A→B
5. g : B→C
6. ∀a1,a2:A. f(a1) = f(a2) ⇒ a1 = a2
7. ∀a1,a2:B. g(a1) = g(a2) ⇒ a1 = a2
8. a1 : A
9. a2 : A
10. g(f(a1)) = g(f(a2))
⊢  a1 = a2  by Obvious
END
```